

Peptide 17 is SEQ ID NO: 13, Peptide 25 is SEQ ID NO: 14, and Peptide 29 is SEQ ID NO: 15.--

Please replace the paragraph beginning at page 9, line 7, with the following rewritten paragraph:

-- Codeinone reductase peptides 3, 7, 14, 16, and 17 aligned with the reductase subunit of the 6'-deoxychalcone synthase complex from alfalfa (SEQ ID NO: 16), glycyrrhiza (SEQ ID NO: 17) and soybean (SEQ ID NO: 18) allowing the relative positioning of these internal peptides from opium poppy (SEQ ID NO: 19).--

Please replace the paragraphs beginning at page 10, line 26, with the following rewritten paragraphs:

-- **Figure 10.** cDNA sequence of *cor1.1*. (SEQ ID NO: 20)
Figure 11. cDNA sequence of *cor1.2*. (SEQ ID NO: 21)
Figure 12. cDNA sequence of *cor1.3*. (SEQ ID NO: 22)
Figure 13. cDNA sequence of *cor1.4*. (SEQ ID NO: 23)
Figure 14. Partial cDNA sequence of *cor1.5*. (SEQ ID NO: 24)
Figure 15. Partial cDNA sequence of *cor1.6*. (SEQ ID NO: 25)

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Please replace the text beginning at page 12, line 1 and ending with line 22, with the following rewritten text:

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SEQ ID NO: 1

5'-GAA CTT TTT ATA ACT TCT AA-3' (derived from Peptide 14) and
G C C C G C
T

SEQ ID NO: 2

3'-GTG GTC TAA CGT CAI CGT TCI CCT TT-5' (derived from Peptide 7)
A A G C

Resolution of an aliquot of the first PCR experiment by agarose gel electrophoresis revealed a mixture of DNA products, none of which was the expected band of approximately 480 bp. This was presumably due to the relatively low specificity of the degenerate primers coupled to a low abundance of codeinone reductase transcript. Another aliquot of the first PCR reaction mixture was, therefore, used as template for nested PCR with the following primers:

SEQ ID NO: 1

5'-GAA CTT TTT ATA ACT TCT AA-3' (same as Peptide 14 primer above) and
G C C C G C
T

SEQ ID NO: 3

3'-CAI CAC TTA GTT CAC CTT TAC-5' (nested primer derived from Peptide 16)
G C C

to yield an approximately 360 bp DNA fragment and the following primers to yield an approximately 180 bp DNA product:

SEQ ID NO: 4

5'-GTI GTI AAC CAA GTI GAA ATG AGI CCI AC-3' (nested primer derived from
T G G TC Peptide 16) and

SEQ ID NO: 2

3'-GTG GTC TAA CGT CAI CGT TCI CCT TT-5' (same as Peptide 7 primer above)
A A G C

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Please replace the text beginning at page 13, line 8 and ending at line 14, with the following rewritten text:

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SEQ ID NO: 5

5'-ATG GAG AGT AAT GGT GTA CCT-3' (located at the 5'-terminus) and

SEQ ID NO: 6

3'-TCT ACC ATT CAC TCC TGA CAG-5' (located in the 3'-flanking region)

followed by nested PCR with the following primer pair:

SEQ ID NO: 7

5'-ATG GCT AGC ATG GAG AGT AAT GGT GTA CCT ATG-3' (located at the
Nhe 1 5'-terminus) and

SEQ ID NO: 8

3'-CTT CTC AAG ACC CTA CTC TTC CTA CCT AGG GAA-5' (located at the
Bam HI 3'-terminus).--